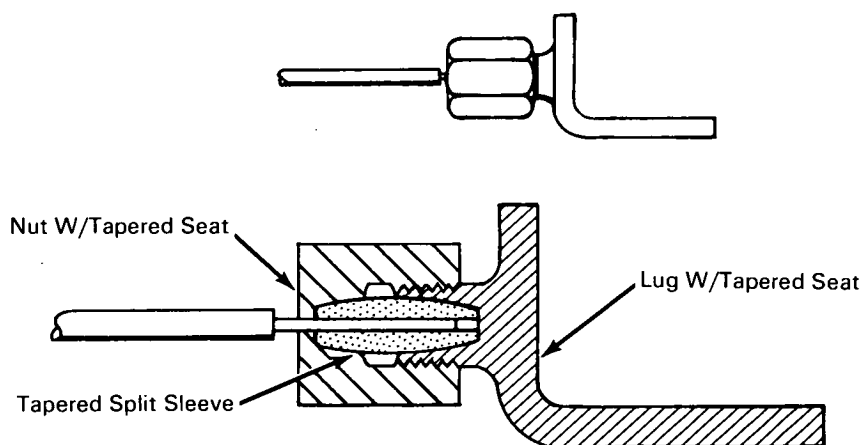


NASA TECH BRIEF



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Improved Solderless Connector Is Easily Disconnected



The problem: To design a solderless connector that can be easily disconnected and reassembled and that will resist vibration. Commonly used crimped connectors damage conductors upon disassembly.

The solution: A compression type connector using a tapered, split sleeve that is tightened by a nut into a mating lug.

How it's done: The metal sleeve, which is tapered at both ends, fits over the bare conductor. The nut is threaded only through part of its length. A tapered seat at the base of the nut is formed to receive the sleeve. The lug has a male threaded end and a tapered recess that matches the sleeve. The sleeve fits over the conductor and between the nut and the lug, and is compressed by tightening the nut onto the lug.

Notes:

1. The connector can be used in place of standard solder lugs and to connect unsolderable wire, such as tungsten or niobium.
2. Inquiries concerning this innovation may be directed to:

Technology Utilization Officer
Jet Propulsion Laboratory
4800 Oak Grove Drive
Pasadena, California. 91103
Reference: B65-10197

Patent status: NASA encourages commercial use of this innovation. No patent action is contemplated.

Source: Hughes Aircraft Co. under contract
to Jet Propulsion Laboratory
(JPL-SC-060)

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